

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	789	436/79-84.ccls.	USPAT	2007/03/19 11:02
2	BRS	L2	152	L1 and (boiler or cooling adj(water or tower) or radiator or heat adj exchang\$ or scale)	USPAT	2007/03/19 11:02
3	BRS	L3	240	L1 and calcium	USPAT	2007/03/19 11:02
4	BRS	L4	32	L1 and (tablet or pill)	USPAT	2007/03/19 11:02
5	BRS	L5	160	L1 and (tablet or pill or powder or granule or capsule or sachet)	USPAT	2007/03/19 11:03
6	BRS	L6	73	L3 and L5	USPAT	2007/03/19 11:03
7	BRS	L7	713	(cation or calcium or iron)near3 binding near6(capacity or ability or capability or extent)	USPAT	2007/03/19 11:03
8	BRS	L8	21	L1 and L7	USPAT	2007/03/19 11:03
9	BRS	L9	526	(cation or calcium)near3 binding near6(capacity or ability or capability or extent)	USPAT	2007/03/19 11:03
10	BRS	L10	209	L9 and (boiler or cooling adj(water or tower) or radiator or heat adj exchang\$ or scale)	USPAT	2007/03/19 11:04
11	BRS	L11	180	L9 with(detect or detected or detecting or detection or determine or determined or determination or determining or measure or measuring or measured or measurement or test or testing or tested or estimate or estimated or estimation or estimating or monitor or monitoring or monitored or sense or sensed or sensor or sensing)	USPAT	2007/03/19 11:04
12	BRS	L12	68	L11 and (boiler or cooling adj(water or tower) or radiator or heat adj exchang\$ or scale)	USPAT	2007/03/19 11:04
13	BRS	L13	4	L1 and L9	USPAT	2007/03/19 11:04
14	BRS	L14	240	L1 and calcium	USPAT	2007/03/19 11:04
15	BRS	L15	62	(cation or calcium)near3 binding near6(capacity or ability or capability or extent)	JPO; DERWENT	2007/03/19 11:05
16	BRS	L16	11	L15 same(detect or detected or detecting or detection or determine or determined or determination or determining or measure or measuring or measured or measurement or test or testing or tested or estimate or estimated or estimation or estimating or monitor or monitoring or monitored or sense or sensed or sensor or sensing)	JPO; DERWENT	2007/03/19 11:05

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(FILE 'HOME' ENTERED AT 10:12:09 ON 19 MAR 2007)

FILE 'CA' ENTERED AT 10:12:28 ON 19 MAR 2007

L1 1018 S (CATION OR CALCIUM) (3A) (CHELAT? OR COMPLEX? OR BINDING) (6A)  
(CAPACITY OR ABILITY OR CAPABILITY OR EXTENT)

L2 32 S L1 AND (TABLET? OR PILL OR POWDER OR GRANULE OR CAPSULE OR SACHET)

L3 14 S L1 AND (BOILER OR COOLING(1W) (WATER OR TOWER) OR RADIATOR OR HEAT  
EXCHANG? OR SCALE)

L4 1750 S (IRON OR FERR?) (3A) (CHELAT? OR COMPLEX? OR BINDING) (6A) (CAPACITY  
OR ABILITY OR CAPABILITY OR EXTENT)

L5 34 S L4 AND (TABLET? OR PILL OR POWDER OR GRANULE OR CAPSULE OR SACHET)

L6 14 S L4 AND (BOILER OR COOLING(1W) (WATER OR TOWER) OR RADIATOR OR HEAT  
EXCHANG? OR SCALE)

L7 94 S L2-3,L5-6

=> d bib,ab 17 1-94

L7 ANSWER 68 OF 94 CA COPYRIGHT 2007 ACS on STN

AN 105:67502 CA

TI Measurement of sequestration capacity of complexing agents for calcium  
and magnesium in aqueous solution

AU Yasue, Tamotsu; Ozawa, Satoshi; Arai, Yasuo

CS Fac. Sci. Eng., Nihon Univ., Tokyo, 101, Japan

SO Nippon Kagaku Kaishi (1986), (6), 767-70

LA Japanese

AB In relation to softening of city water, inhibition of boiler scale, and  
retarding action on setting of gypsum hemihydrate and portland cement,  
several complexing agents such as Na citrate, sucrose,  $\alpha$ -D-glucose, and  
diglycolic acid were chosen and the sequestration capacity of these  
agents and the compn. of their complex ions were studied by  
turbidometric titrn., chelatometric titrn., potentiometry (ion-selective  
electrode), and elec. cond. The sequestration capacities of Na citrate  
and the saccharides differed considerably depending on the method of  
measurement. The Ca ion is sequestered very well by Na citrate, the  
sequestration capacity toward Ca and Mg ions being  $\square$ 26.8 g and 17.0 g at  
pH 8.5, resp. Most of the complex ions studied have a bonding ratio of  
1/1 in terms of Ca and Mg, but the bonding ratio is 2/1 for diglycolic  
acid/Ca. More stable complex ions appear at pH 8.0-9.5.

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STN INTERNATIONAL LOGOFF AT 10:20:28 ON 19 MAR 2007